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CONFIDENTIAL

19 March 1954

MEMORANDUM FOR: THE RECORD

SUBJECT: [REDACTED]

DOCUMENT NO. 1
NO CHANGE IN CLASS. ☐
☐ DECLASSIFIED
CLASS. CHANGED TO: TS S 02010
NEXT REVIEW DATE: _____
AUTH: HR 70-2
DATE: 230/80 REVIEWER: 010956

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1. On 5 March 1954 [REDACTED] and the undersigned visited the offices of [REDACTED]

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2. Discussions covered their research in solid state physics, particularly, on binary components such as cadmium sulphide and their applications as photo-electronic transducers sensitive to ultraviolet and visual light. Further inquiries were made regarding the suitability of using such materials as infrared indicators and it was their feeling that a passive infrared indicator could readily be made using these binary components. [REDACTED]

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3. From the discussions that took place it was apparent that these binary components possessed certain potential for use as power converters. Their experience has indicated that these materials may be used to convert solar energy to electrical energy in quantities adequate to operate simple transistor systems. In this regard, interest was expressed in the conversion of energy of the order of one watt.

4. Actions:

a. APD is to provide [REDACTED].

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b. [REDACTED] will provide two technical proposals in the very near future, one to cover research on a specific miniature photo-electronic switch adequate for control of such items as robot cameras, the second proposal will cover a much broader interest in basic research on solid state physics, particularly, the exploitation of the use of binary components as power converters, etc.

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